

TECHNICAL DATA SHEET

CyFlow™ TNF-alpha Purified Anti-Hu; Clone MAb11

REF BA128096

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	TNF- α
Alternative Names	—
Clone	MAb11
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human, Non-Human Primates Pig
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Recombinant human TNF α

Specificity

The mouse monoclonal antibody MAb11 recognizes human 17-26 kDa cytokine TNF α (tumor necrosis factor α).

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunohistochemistry (frozen sections)
- Immunocytochemistry
- Functional assays
- Enzyme-linked immunosorbent assay

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

TNF α is a cytokine produced by monocytes, macrophages, neutrophils, NK cells, CD4+ T cells and many transformed cells. It can be expressed as a 17 kDa free molecule, or as a 26 kDa membrane protein. TNF α easily forms stable trimers, but also other multimeric complexes. In the immune system, it is an important regulator, which has cytolytic and cytostatic activity against a range of tumor cells, increases fibroblast proliferation and supports neutrophil chemotaxis and phagocytosis.

References

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- Visser J, Graffelman W, Blauw B, Haspels I, Lentjes E, de Kloet ER, Nagelkerken L: LPS-induced IL-10 production in whole blood cultures from chronic fatigue syndrome patients is increased but supersensitive to inhibition by dexamethasone. J Neuroimmunol. 2001 Oct 1; 119(2):343-9. < PMID: 11585638 >

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- Attarbaschi T, Willheim M, Ramharter M, Hofmann A, Wahl K, Winkler H, Graninger W, Winkler S: T cell cytokine profile during primary Epstein-Barr virus infection (infectious mononucleosis). Eur Cytokine Netw. 2003 Jan-Mar; 14(1):34-9. < PMID: 12799212 >
- Cesaro-Tadic S, Dernick G, Juncker D, Buurman G, Kropshofer H, Michel B, Fattinger C, Delamarche E: High-sensitivity miniaturized immunoassays for tumor necrosis factor alpha using microfluidic systems. Lab Chip. 2004 Dec; 4(6):563-9. < PMID: 15570366 >
- Yan SR, Qing G, Byers DM, Stadnyk AW, Al-Hertani W, Bortolussi R: Role of MyD88 in diminished tumor necrosis factor alpha production by newborn mononuclear cells in response to lipopolysaccharide. Infect Immun. 2004 Mar; 72(3):1223-9. < PMID: 14977922 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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